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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on:

August 9, 2003, 16:24:23; Search time 18.4571 Seconds (without alignments) 98.997 Million cell updates/sec

US-09-905-691-2 19 Title:

1 ARAARRAARAARRARAEA 19 Perfect score: Sequence:

OLIGO Gapop 60.0 , Gapext 60.0 Scoring table:

283308 seqs, 96168682 residues Searched:

0 Word size :

283308 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

1: pirl:* 2: pir2:* 3: pir3:* 4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STEMMENTES

	Description			Cal	pyoverdine blosynt	1somerase/decarbox	H-2 class I histoc	шп	ATP-dependent heli	conserved hypothet	probable ATP-bindi	hypothetical prote	_	Н	_	_	-4	_	transcription requ	hypothetical profe	high-affinity bran	hypothetical 29K p	troponin-I - scall	nitrogen regulatio	hypothetical prote	_	~	О	G protein-coupled	HlyD family secret
SUMMARIES	£	D86976	B70899	H72702	нв3363	T50935	A21198	F83490	AD3479	T02808	T35745	AD2110	AI3052	AH0925	T30752	E75622	D70777	C83305	D87638	F75459	AH3618	C39741	JE0233	G87464	B87557	S27534	E84295	σ	. B55733	F87364
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probable dipeptida succinyl-coa synth galactokinase (EC	hypothetical prote probable hexosyltr probable 3-hydroxy probable glycosyl conserved hypothet	glycoprotein gx - glycine betaine/1- cyaE protein - Bor probable hexosyltr hypothetical prote	encyl-coa hydratas hypothetical prote hypothetical prote
T35868 T35773 KISMG	A87649 S72892 H82998 H87214 T36953	S35783 AI3467 BVBRCE A70744 T32754	A87474 B87258 A72586
7 7 7 F	0 1 0 0 0 0	99HH9	999
376 383 395	4 4 4 4 0 4 4 4 4 0 6 1 8 8 1 8 8	444 454 474 880	501 511 525
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rrr!	~~~~	~~~~	~~~
32 32 32 32	w w w w w w 4 10 00 17	866444 200012	4 4 4 6 4 4 5

ALIGNMENTS

RESULT 1 D86976 P086976 Probable integration host factor [imported] - Mycobacterium leprae C; Species: Mycobacterium leprae R; Cole, S.T.; Eiglmeler, K.; Parkhill, J.; James, K.D.; Thomson, N.R.; Wheeler, P.R.; R; Davies: R.; Davies, K.; Suthory, S.; Feltwell, T.; Fraser, A.; Hamlin, N.; Holir Nature 409, 1007-1011, 2001 A; Reference number: A86909; Mulp:21128732; PMID:11234002 A; Reference number: A86909; Mulp:21128732; PMID:11234002 A; Retarus: Preliminary A; Rocession: D86976 A; Retarus: Preliminary A; Retarus: Prelimi	Similarity 100.0%; Pred. No. 0.41; 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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10 AAARRARAE 18

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probable mIHF protein - Mycobacterium tuberculosis (strain H37RV) C;Species: Mycobacterium tuberculosis C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 20-Jun-2000

Cyaccession: B70899
R;Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gordon
R;Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gordon
R; Connor, R.; Davies, R.; Deviin, K.; Feltwell, T.; Gentles, S.; Harlin, N.; Holroyd,
Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S.
Nature 393, 537-544, 1998
A;Authors: Sqares, R.; Sulston, J.E.; Taylor, R.; Whitehead, S.; Barrell, B.G.
A;Title: Deciphering the biology of Mycobacterium tuberculosis from the complete geno A;Accession: B70899

A.Status: preliminary; nucleic acid sequence not shown; translation not shown
A.Molecule type: DNA
A.Residues: 1-190 <COL>
A.Tesaldues: 1-190 <COL>
A.Experimental source: GB:Z80108; GB:AL123456; NID:g3256012; PIDN:CAB02193.1; PID:g15428
A.Experimental source: strain H37Rv
C.Genetics:

A;Gene: mIHF C;Superfamily: Mycobacterium tuberculosis probable mIHF protein

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C;Accession: T50935
R;Martin, V.J.; Mohn, W.W.
J. Bacteriol. 181, 2675-2682, 1999
A;Title: A novel aromatic-ring-hydroxylating dioxygenase from the diterpenoid-degrad1
A;Réference number: 225281; MUID:99235742; PMID:10217753
A;Accession: T50935
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R;Lalanne, J.L.; Cochet, M.; Kummer, A.M.; Gachelin, G.; Kourilsky, P.
Rricalanne, J.L.; Cochet, M.; Kummer, A.M.; Gachelin, G.; Kourilsky, P.
Proc. Natl. Acad. Sci. U.S.A. 80, 7561-7565, 1983
A;Titler Different exon-intron organization at the 5' part of a mouse class I gene is A;Reference number: A21198; MUID:84170268; PMID:6143316
A;Accession: A21198
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A.Reference number: A82950; MUID:20437337; PMID:10984043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A,Cross·references: GB:AE004553; GB:AE004091; NID:99947164; PIDN:AAG04626.j; GSPDB:GN
A,Experimental source: strain PA01
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R; Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, Isonans, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, J. Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 H-2 class I histocompatibility antigen pH-2D-24 - mouse
C;Species: Mus musculus (house mouse)
C;Date: 27-Jul-1990 #sequence_revision 31-Jul-1992 #text_change 23-Jul-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C.Species: Pseudomonas aeruginosa
C.Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 31-Dec-2000
21-Jul-2000 #sequence_revision 21-Jul-2000 #text_change 21-Jul-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: GB:K01182; NID:g199544; PIDN:AAA39653.1; PID:g387468 hybric: the authors translated the codon CCC for residue 288 as Ser C;Superfamily: class I histocompatibility antigen; immunoglobulin homology F;205-270/Domain: immunoglobulin homology <IMA
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                                                                                                                                                                                                        A; Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                        A)Cross-references: EMBL:AF119621; PIDN:AAD21070.1
A; Experimental source: strain BKME-9; ATCC700689
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Pred. No. 6.8;
0; Mismatches
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Best Local Similarity 100.0%;
Matches 8; Conservative 0
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Best Local Similarity 100.08;
Matches 8; Conservative (
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A) Molecule type: mRNA
A) Residues: 1-356 < LAL>
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// Residues: 1-383 <STO>
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X;Residues: 1-144 KKMY-
A;Cross-references: DDBJ:AP000060; NID:95104188; PIDN:BAA80024.1; PID:d1043810; PID:9510
A;Experimental source: strain Kl
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R; Stover, C.K.; Pham, X.O.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Br adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim, Nature 406, 959-964, 2000
                                                                                                                                                                                                                                                                                                                                 hypothetical protein APE1039 - Aeropyrum pernix (strain K1),
C;Species: Aeropyrum pernix
C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 20-Aug-1999
C;Accession: H72702
R;Kawarabayasi, Y: Hino, Y: Horikawa, H: Yamazaki, S: Haikawa, Y:, Jin-no, K:; Takabawa, H:; Takamiya, M:; Masuda, S:; Funahashi, T:; Tanaka, T:; Kudoh, Y:; Yamazaki, J:; Kawarabayasi, Camplete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropyi A;Reference number: A72450; MUID:99310339; PMID:10382966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A/Title: Complete genome sequence of Pseudomonas aeruginosa PAO1, an opportunistic pathd
A/Reference number: A82950; MUID:20437337; PMID:10984043
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A;Molecule type: DNA
A;Residues: 1-328 <STO>
A;Cross-references: GB:AE004651; GB:AE004091; NID:g9948277; PIDN:AAG05642.1; GSPDB:GN001
A;Experimental source: strain PA01
C;Genetics:
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C;Species: Pseudomonas aeruginosa
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C.Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 31-Dec-2000
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C;Species: Pseudomonas abletaniphila
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                        Length 190;
                                                                                0; Indels
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6.6;
               47.4%; Score 9; DB 2
100.0%; Pred. No. 0.6
tive 0; Mismatches
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Pred. No.
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Best Local Similarity 100.0%;
Matches 8; Conservative 0
               Query Match 47.4
Best Local Similarity 100.
Matches 9; Conservative
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Best Local Similarity
Matches 8; Conserva
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A;Gene: APE1039
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Gaps

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hypothetical protein as12435 [imported] - Nostoc sp. (strain PCC 7120)
C;Species: Nostoc sp. PCC 7120
C;Species: Nostoc sp. PCC 7120
C;Species: Nostoc sp. strain PCC 7120
C;Date: Nostoc sp. strain PCC 7120
C;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Dec-2002
C;Accession: AD2110
C;Accession: AD2110
Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Irigu Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Tasada, A.; Irigu A;Tile: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium A;Reference number: AB1807; MUID:21595285; PMID:11759840
A;Sterens D2110
A;Sterens preliminary
C; Species: Streptomyces coelicolor
C;Date: 05-Nov-1999 #sequence_revision 05-Nov-1999 #text_change 05-Nov-1999
C;Accession: T35745
R; Saunders, D.C.; Harris, D.; Bentley, S.D.; Parkhill, J.; Barrell, B.G.; Rajandream,
submitted to the EMBL Data Library, August 1999
A;Reference number: 121588
A;Reference number: 12545
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-998 CSAD>
A;Cross-references: EMBL:AL109712; PIDN:CAB52056.1; GSPDB:GN00070; SCOEDB:SC7H2.14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Riwood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Wood, G. G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, M.; McCl starp, P.; Romero, P.; Zhang, S. Science 294, 2317-2333, 2001
A;Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kam
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ster, E.W.
A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A;Reference number: AB2577; MUID:21608550; PMID:11743193
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Cross-references: GB: AE008689; PIDN: AAL44839.1; PID: 917742483; GSPDB: GN00187
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Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 18-Nov-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                        42.1%; Score 8; DB 2;
100.0%; Pred. No. 16;
11ve 0; Mismatches
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100.0%; Pred. No. 13;
ilve 0; Mismatches
                                                                                                                                                                                                                                                                                                                       A; Experimental source: strain A3(2)
C; Genetics:
A; Gene: SCOEDB: SC7H2.14
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Best Local Similarity 100.
Matches 8; Conservative
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54 AAARRAR 60
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Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-69 <KUR>
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A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-71 < KUR>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                R;DelVecchio, V.G.; Kapatral, V.; Redkar, R.J.; Patra, G.; Mujer, C.; Los, T.; Ivanova, J.; Mazur, M.; Goltsman, E.; Selkov, E.; Elzer, P.H.; Hagius, S.; O'Callaghan, D.; Letess Proc. Natl. Acad. Sci. U.S.A. 99, 443-448, 2002
A;Itle: The genome sequence of the facultative intracellular pathogen Brucella melitens A; Reference number: AD3252; PMID:11756688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C; Species: Leishmania major
C; Date: 24-Mar-1999 #sequence_revision 24-Mar-1999 #text_change 19-May-2000
C; Accession: D81457; T02808
R; Myler, P. J.; Audleman, L.; devOs, T.; Hixson, G.; Kiser, P.; Lemley, C.; Magness, C.; Proc. Natl. Acad. Sci. U.S.A. 96, 2902-2906, 1999
Proc. Natl. Acad. Sci. U.S.A. 96, 2902-2906, 1999
A; Title: Leishmania major Friedlin chromosome 1 has an unusual distribution of protein-charactere number: A81455; MUID:99178987; PMID:10077609
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A;Experimental source: strain MHOM/IL/81/Friedlin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  conserved hypothetical protein YPL199c, L2602.6 [imported] - Leishmania major (strain
                                                                                                                                                                                                                                                                                                                                               ATP-dependent helicase hrpB BMEI1818 [imported] - Brucella melitensis (strain 16M)
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A;Residues: 1-710 <KUR>
A;Cross-references: GB:AE008917; PIDN:AAL52999.1; PID:g17983853; GSFDB:GN00190
                                                                                                                                                                                                                                                                                                                                                                         C;Species: Brucella melitensis
C;Date: 01-Feb_2002 #sequence_revision 01-Feb-2002 #text_change 14-Apr-2003
                                                                                              Gaps
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                                Length 383;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Map position: I
C;Superfamily: HrpB type ATP-dependent RNA helicase
                                DB 2;
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Mismatches
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Best Local Similarity 100.0%; Pred. No. 12;
Matches 8; Conservative 0; Mismatches
                             Query Match 42.1%; Score 8; DB 3
Best Local Similarity 100.0%; Pred. No. 7.5
Matches 8; Conservative 0; Mismatches
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100.0%; Pre
0;
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187 ARAAARRA 194
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         156 AARAAARR 163
                                                                                                                                           8 ARAAARRA 15
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Best Local Similarity
Matches 8; Conserva
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A; Molecule type: DNA
A; Residues: 1-897 <PYL>:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Status: preliminary
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A;Gene: BMEI1818
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Gaps

A; Experimental source: strain C58 (Dupont)

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Search completed: August 9, 2003, 16:34:10 Job time : 21.4571 secs
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A; Residues: 1-145 <WHI>
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                                                                                                                                                                                                                                                                                                                   Status: preliminary
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                                                                                                                                                                                                                                                                                                                                                                                                                                            CiAccession: AH0925
Ribarkhill, J.; Dougan, G.; James, K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher, M. T.; Connerton, P.; Cronin, A.; Davis, P.; Davies, R.M.; Dowd, L.; White, N.; Farrar, S.; Woule, S.; O'Gaora, P.
Nature 413, 848-852, 2001
A:Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Aritle: Complete genome sequence of a multiple drug resistant Salmonella enterica seroy A; Reference number: AB0502; MUD:21534947; PMID:11677608

    Salmonella enterica subsp. enterica serovar Ty

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                                                                                                                                                                                                                                                                                                                                                                            Species: Salmonella enterica subsp. enterica serovar Typhi
Note: this species has also been called Salmonella typhi
Date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 18-Nov-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'Species: Molluscum contagiosum virus 1
'Date: 05-Nov-1999 #sequence_revision 05-Nov-1999 #text_change 21-Jul-2000
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C;Superfamily: Molluscum contagiosum virus 1 hypothetical protein 150R
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                                                                                                                                              0; Indels
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                                                                                               Length 71;
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                                                                                           Query Match 36.8%; Score 7; DB 2; Best Local Similarity 100.0%; Pred. No. 13; Matches 7; Conservative 0; Mismatches
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100.0%; Pred. No. 18;
Live 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                        ypothetical protein STY3665 [imported]
                                              A; Map position: linear chromosome
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                                                                                                                                                                                                            1111111
39 RAARRAA 45
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Best Local Similarity
Matches 7; Conserv
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Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                      2 RAARRAA 8
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Molecule type: DNA
Residues: 1-77 <PAR>
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                      A; Gene: Atu4038
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C; Genetics
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A;Cross-references: GB:AE001826; NID:96460827; PIDN:AAF12646.1; PID:96460942; TIGR:DR
A;Experimental source: strain R1
                                                                                C; Accession: E75622
R; White, O.; Elsen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, J.D.; Dodson, R.; M.; Shen, M.; Vamathevan, J.J.; Lam, P.; McDonald, L.; Utterback, T.; Zalewski, C.; S.; Smith, H.O.; Venter, J.C.; Fraser, C.M.
Sclence 286, 1571-1577, 1999.
A; Title: Genome sequence of the radioresistant bacterium Deinococcus radiodurans R1. A; Reference number: A75250; MUID: 20036896; PMID: 10567266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                         C;Species: Deinococcus radiodurans
C;Date: 03-Dec_1999 #sequence_revision 03-Dec-1999 #text_change 31-Mar-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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protein - Deinococcus radiodurans (strain R1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 36.8
Best Local Similarity 100.
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Map position: megaplasmid
A;Genome: plasmid
A;Note: plasmid MP1
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